I553.79
ROSE 2
c.3

31204347

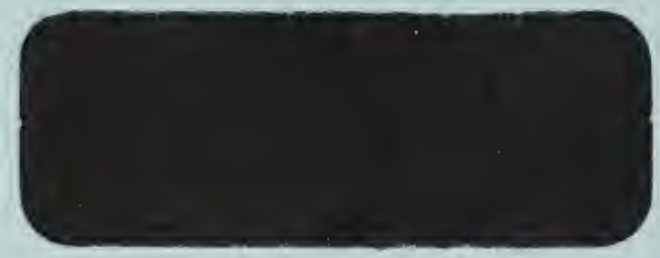
Illinois
Environmental
Protection Agency

Division of Public Water Supplies
2200 Churchill Road
Springfield, Illinois 62706

Groundwater Quality Protection Program

Roselle
FACILITY NUMBER 0434820
WELL SITE SURVEY REPORT

Division of Public Water Supplies



IEPA/PWS/93-110

GROUNDWATER QUALITY PROTECTION PROGRAM:

Roselle
FACILITY NUMBER 0434820
WELL SITE SURVEY REPORT

Presented by:

Division of Public Water Supplies

Published by:

Illinois Environmental Protection Agency

Springfield, Illinois

July 1994

ILLINOIS STATE LIBRARY
3 1129 00684 493 0

Digitized by the Internet Archive
in 2018 with funding from
University of Illinois Urbana-Champaign

https://archive.org/details/rosellefacilityn00unse

I553.79
ROSE2
C.3

TABLE OF CONTENTS

I. Introduction

II. Facility Description and Geologic Profile of Well Sites

III. Groundwater Sampling and Monitoring History

IV. Well Site Survey Methods and Procedures

V. Summary

VI. Recommendations

VII. Technical Appendices

A. Topographic Map of Roselle Well Locations

B. Aerial Photographic Map

1. Roselle well #4 (20567) Summary Description and Unit Inventory

2. Roselle well #5 (20568) Summary Description and Unit Inventory

C. Facility Wells Report

D. Detailed Sampling/Monitoring Results

E. Hazard Review Worksheet(s)

F. Well Logs

INTRODUCTION

This report has been prepared by the Illinois Environmental Protection Agency (Agency) pursuant to Section 17.1 of the Illinois Environmental Protection Act (Act). The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to the groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

Roselle has two active public water supply wells. The facility produces 1,861,000 gallons per day to an estimated population of 20,819. See Table I for a description of each well. The wells utilize a sand and gravel aquifer (for well no. 4) and a deep bedrock aquifer (for well no. 5) overlain by uniform, relatively impermeable silty or clayey till or other fine-grained material more than 50 feet thick, no sand and gravel identified. Permeability is the ability of a soil or sediment to transmit fluids. A detailed description and geologic profile is found in the Facility wells Report (Appendix C).

TABLE 1

Well I.D.	Setback Min. (Ft.)	Setback Max. (Ft.)	Status	Capacity (gpm) (MGD)	Specific Capacity (gpm/ft)	Treatment	Aquifer	Well Depth (Ft.)	Well Logs Avail.
Well #4 (20567)	200		A	896.6 1.292	NA	Cl,Fl S. Phos.	Sand & Gravel	195	Yes
Well #5 (20568)	200		A	896.6 1.292	NA	Cl	Deep Bedrock	1423	Yes
Well #1 (20564)	200		I (5/91)	149.9 0.216	NA	Cl,Fl S. Phos.	Shallow Bedrock	180	No
Well #2 (20565)	200		I (4/92)	309.5 0.446	NA	Cl,Fl S. Phos.	Shallow Bedrock	183	Yes
Well #3 (20566)	200		I (1293)	749.5 1.080	NA	Cl,Fl S. Phos.	Shallow Bedrock	160	Yes
Well #6 (20569)	200		I (7/92)	299.8 0.432	NA	Cl,Fl S. Phos.	Sand & Gravel	127	Yes
Well #7 (20572)	200		I (1293)	149.9 0.216	NA	Cl,Fl S. Phos.	Shallow Bedrock	221	Yes

A=Active; I=Inactive; SB=Standby

GROUNDWATER SAMPLING/MONITORING HISTORY

The public water supply wells no. 4, and no. 5 were sampled as part of the Statewide Groundwater Monitoring Network on June 24, 1985 and January 26, 1988 respectively. The samples were analyzed for volatile organic and aromatic chemicals (VOC/VOA) and inorganic chemcials (IOC). The VOC/VOA analyses performed detected no quantifiable levels of organic chemicals in the wells. The IOC analyses performed found the water from the wells to meet all general use guidelines for well no.5 and elevated iron for well no.4 which is not uncommon for similar wells in the area.

SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B), that relate information about potential sources, routes and possible problem sites to your water supply well(s). The location of potential sources, routes, possible problem sites, water supply wells, minimum setback zones, and 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,500 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized for agricultural production). The Agency five-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

Survey Results and Findings:

The well site survey of Roselle was conducted on August 11, 1993 by Laurie Moyer, Environmental Protection Specialist from the Agency's Rockford Regional Office. The following describes the results and findings for Roselle.

Roselle well #4 (20567)
The survey area is urban consisting of moderate density residential housing. The well is located off Summerfield Dr. There are no visible potential sources, routes, or possible problem sites within the minimum setback zone (200 feet). Two potential source or possible problem site is located outside the minimum setback zone but within the survey area of the well (1500 feet). These sites are Lake Park High School Dist. 108 (map code 1) located 2750 feet northwest of the well and Clauss Recreation Center (map code 2) located 2300 feet northwest of the well.

Roselle well #5 (20568)
The survey area is urban consisting of moderate density residential housing. The well is located on the corner of Bryn Maur Rd. and Menshing Rd. There is one visible potential sources, routes, or possible problem sites within the minimum setback zone (200 feet). This site is Clauss Recreational Center (map code 2) located 25 feet east of the well. One potential source or possible problem site is located outside the minimum setback zone but within the survey area of the well (1500 feet). This site is Lake Park High School Dist. 108 (map code 1) located 1075 feet northeast of the well.

SUMMARY

The well site survey conducted indicates that there are potential sources/sites that could pose a hazard to groundwater utilized by the Roselle public water wells.

- One with below ground fuel storage: Lake Park High School Dist. 108.

The Illinois Environmental Protection Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the Agency. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the control would then be assumed by the local officials through adoption of a maximum setback zone ordinance.

Maximum setback zones prohibit the siting of new potential primary sources of groundwater contamination. A maximum setback up to 1,000 feet could expand the regulatory coverage of certain existing and new activities. These controls could be implemented upon the adoption of proposed regulations by the Illinois Pollution Control Board.

RECOMMENDATIONS

The Agency strongly urges Roselle to consider establishing a maximum setback zone ordinance for its wells. Maximum setback zones prohibit the siting of new potential primary sources of groundwater contamination up to 1000 feet from respective wellheads. Regulatory coverage of certain existing activities could be expanded upon adoption of proposed regulations currently before the Illinois Pollution Control Board. To aid you in the development of further regulatory coverage for your well supply, the Agency prepared a "Maximum Setback Zone Workbook" that provides detailed case studies of how to establish maximum setback zones. This text and further technical assistance is readily available form the Agency and the Illinois State Water Survey.

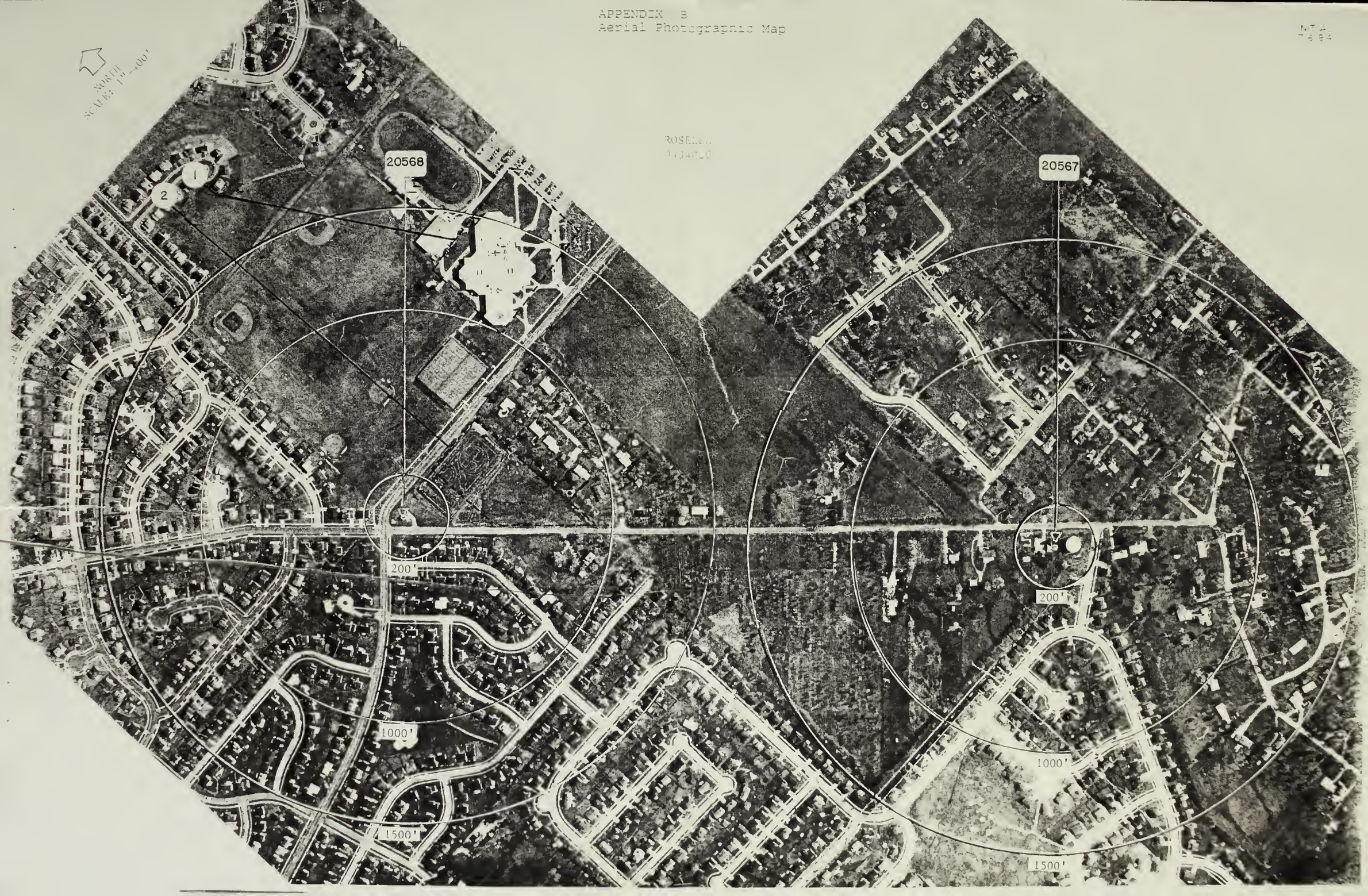
Local governments are also encouraged to consider conducting groundwater protection needs assessments. Any county or municipality having a population less than 25,000 or 5,000 persons respectively, may request the Agency to conduct a hazard review in lieu of a need's assessment. The Agency may issue an "advisory of groundwater contamination hazard" if a significant hazard to the public health or the environment exists.

TECHNICAL APPENDICES

APPENDIX A - Topographic Map of Roselle
(0434820) Well Locations

NORTH
SCALE: 1"=400'
1
2
0567

APPENDIX B
Aerial Photographic Map



Appendix B1 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
Roselle Well No. 4 (IEPA #20567)

SURVEYOR: Moyer
SURVEY DATE: 09-11-93
ADDRESS: Village of Roselle
31 South Prospect
Roselle, IL 60172

AGENCY WELL NO: 20567
WELL NAME & DESC: well #4
TREATMENT APPLICATION POINT: 04
FACILITY NO. & NAME: 0434820 - Roselle
FACILITY PHONE CONTACT: 708-980-2013

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 40N, 10E, 10, 8D
DISTANCE FROM CORNER: 2480N, 215E
QUAD SHEET CODE & NAME: 033A - Lombard
MIN. SETBACK: 200 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E-Uniform, relatively impermeable silty or clayey till or other fine-grained material more than 50 feet thick, no sand and gravel identified.
AGE OF WELL: 1972
WELL DEPTH: 195 feet
CASING DEPTH: 109 Feet
AQUIFER CODE: 0156 - Sand & Gravel
MULTPLE AQUIFER (Y,N): Yes
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting of moderate density residential housing.

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO:

APPENDIX B1 - INVENTORY & SYNOPSIS OF UNIT(S) Roselle Well No. 4 (IEPA #20567)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20567-01-OS
NAME & ADDRESS OF UNIT OWNER: Lake Park High School Dist. 108, 600 S. Medinah Rd., Roselle, Il 60172
DESCRIPTION AND COMMENTS: High School, 2 registered underground storage tanks on site OSFM #2-015562
PRE OR POST (Y,N): Yes
DISTANCE AND DIRECTION: 2750 feet northwest of the well

WELL NO. - MAP CODE - CLASSF*: 20567-02
NAME & ADDRESS OF UNIT OWNER: Clauss Recreational Center, Bryn Mawr Ave., Roselle, IL 60172
DESCRIPTION AND COMMENTS: Recreational Center
PRE OR POST (Y,N): Yes
DISTANCE AND DIRECTION: 2300 feet northwest of the well

Appendix B2 - WELL SITE SUMMARY DESCRIPTION AND GEOLOGIC PROFILE
Roselle Well No. 5 (IEPA #20568)

SURVEYOR: Moyer
SURVEY DATE: 09-11-93
ADDRESS: Village of Roselle
31 South Prospect
Roselle, IL 60172

AGENCY WELL NO: 20568
WELL NAME & DESC: well #5
TREATMENT APPLICATION POINT: 05
FACILITY NO. & NAME: 0434820 - Roselle
FACILITY PHONE CONTACT: 708-980-2013

LOCATION: TWP, RNG, SECTION, 10 ACRE PLOT: 40N, 10E, 09, 3H
DISTANCE FROM CORNER: 96S, 1913W
QUAD SHEET CODE & NAME: 033A - Lombard
MIN. SETBACK: 200 feet
MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: E-Uniform, relatively impermeable silty or clayey till or other fine-grained material more than 50 feet thick, no sand and gravel identified.
AGE OF WELL: 1978
WELL DEPTH: 1423 feet
CASING DEPTH: 434 Feet
AQUIFER CODE: 6393 - Deep Bedrock
MULTPLE AQUIFER (Y,N): Yes
SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban consisting of moderate density residential housing.

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO:

APPENDIX B2 - INVENTORY & SYNOPSIS OF UNIT(S) Roselle Well No. 5 (IEPA #20568)

*CLASSF KEY

MIN. ZONE	OUTSIDE MIN. ZONE
PP = POTENTIAL PRIMARY	OP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY	OS = POTENTIAL SECONDARY
RI = ROUTE	OR = ROUTE
CC = CERTIFIED	CC = CERTIFIED
XI = UNKNOWN	OX = UNKNOWN
CU = CLEANUP	CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20567-02-OS
NAME & ADDRESS OF UNIT OWNER: Lake Park High School Dist. 108, 600 S. Medinah Rd., Roselle, Il 60172
DESCRIPTION AND COMMENTS: High School, 2 registered underground storage tanks on site OSFM #2-015562
PRE OR POST (Y,N): Yes
DISTANCE AND DIRECTION: 1075 feet northeast of the well

WELL NO. - MAP CODE - CLASSF*: 20567-02
NAME & ADDRESS OF UNIT OWNER: Clauss Recreational Center, Bryn Mawr Ave., Roselle, IL 60172
DESCRIPTION AND COMMENTS: Recreational Center
PRE OR POST (Y,N): Yes
DISTANCE AND DIRECTION: 25 feet east of the well

APPENDIX C

FACILITY: 0434320 ROSELLE

OWNER	OFFICIAL CUSTODIAN
JAMES RAK	ROBERT BURNS
MAYOR - VILLAGE HALL	DIRECTOR OF PUBLIC WORKS
31 SOUTH PROSPECT	31 SOUTH PROSPECT
ROSELLE IL 60172	ROSELLE IL 60172

WELL: 20564 WELL NO 1 IRVING PK & ROSELLE RD NE STATUS: ABANDONED DRILLED DEPTH(FT): 180
LATITUDE: N41 59 12.0 LONGITUDE: W088 04 42.0 TWP: 40N RNG: 10E SEC: 03 PLOT: 4F

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): NONE ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 3 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
AQUIFERS: SILURIAN DOLOMITE SILURIAN SYSTEM

WELL: 20565 WELL NO 2 100 SE OF WELL 1 STATUS: ABANDONED BACKUP DRILLED DEPTH(FT): 183
LATITUDE: N41 59 12.0 LONGITUDE: W088 04 42.0 TWP: 40N RNG: 10E SEC: 03 PLOT: 4E

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): NONE ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 3 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
AQUIFERS: SILURIAN DOLOMITE SILURIAN SYSTEM

WELL: 20566 WELL NO 3 IRVING PK & ARDMORE NE CORNER STATUS: ACTIVE BACKUP DRILLED DEPTH(FT): 160
LATITUDE: N41 59 05.0 LONGITUDE: W088 04 00.0 TWP: 40N RNG: 10E SEC: 02 PLOT: 7C

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): 0200 ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 3 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
AQUIFERS: SILURIAN DOLOMITE SILURIAN SYSTEM
NIAGARAN SERIES ALEXANDRIAN SERIES
MAQUOKETA GROUP

WELL: 20567 WELL NO 4 371 SUMMERFIELD DR STATUS: ACTIVE BACKUP DRILLED DEPTH(FT): 195
LATITUDE: N41 58 04.0 LONGITUDE: W088 05 25.0 TWP: 40N RNG: 10E SEC: 10 PLOT: 8D

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): 0200 ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 3 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00

FACILITY: 0434620 ROSELLE (CONTINUED)

WELL: 20567 WELL NO 4 371 SUMMERFIELD DR (CONTINUED)

AQUIFERS: QUATERNARY SYSTEM — ALLUVIUM
PLEISTOCENE SERIES — PENNSYLVANIAN SYSTEM
MCLEANSBORO GROUP — KEWANEE GROUP
MCCORMICK GROUP — CHESTERIAN SERIES
VALMEYERAN SERIES — MIDDLE DEVONIAN SERIES OF NEW ALBANY GRP
SILURIAN DOLOMITE — SILURIAN SYSTEM

WELL: 20568 WELL NO 5 BRYN MAWR & MENSHING SE — STATUS: ACTIVE BACKUP — DRILLED DEPTH(FT): 1423
LATITUDE: N41 58 19.0 — LONGITUDE: W088 05 58.0 — TWP: 40N RNG: 10E SEC: 09 PLOT: 3H

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): 0200 ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 3 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
AQUIFERS: SILURIAN DOLOMITE — ANCELL GROUP
GALENA GROUP — PLATTEVILLE GROUP
ORDOVICIAN-CAMBRIAN SYSTEM — CANADIAN SERIES
GUNTER SANDSTONE OF PRAIRIE DU CHIEN GRO — NEW RICHMOND SNDSTN OF PRAIRIE DU CHIEN
ONEOTA DOLOMITE OF PRAIRIE DU CHIEN GROU — SHAKOPEE DOLOMITE OFPRAIRIE DU CHIEN GRO
CAMBRIAN SYSTEM — EAU CLAIRE FORMATION
EMINENCE-POTOSI — IRONTON-GALESVILLE

WELL: 20569 WELL NO 6 RODENBURG & BRYN MAWR SE — STATUS: ABANDONED BACKUP — DRILLED DEPTH(FT): 127
LATITUDE: N41 58 18.0 — LONGITUDE: W088 08 20.0 — TWP: 40N RNG: 10E SEC: 08 PLOT: 1F

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): NONE ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 3 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
AQUIFERS: QUATERNARY SYSTEM — PLEISTOCENE SERIES

WELL: 20572 WELL 7 — STATUS: ACTIVE BACKUP — DRILLED DEPTH(FT): 221
LATITUDE: N41 59 40.0 — LONGITUDE: W088 04 34.0 — TWP: 41N RNG: 10E SEC: 34 PLOT: 3B

SUSCEPTIBILITY - LAND BURIAL: E SUSCEPTIBILITY - LAND SPREADING: D2 --- MINIMUM SETBACK(FT): 0200 ---
ALTITUDE (FT): 0.00 ALTITUDE METHOD CODE: - UNKNOWN
INTERVAL 1 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 2 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
INTERVAL 3 - TYPE: 0 - N/A SCREEN MATL: 0 - NOT APPLICABLE DEPTH TO TOP (FT): 0.00 DEPTH TO BOT (FT): 0.00
AQUIFERS: SILURIAN DOLOMITE — SILURIAN SYSTEM

SUSCEPTIBILITY CODES
LAND BURIAL: E = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 50 FT THICK; NO EVIDENCE OF INTERBEDDED SAND AND GRAVEL.

LAND SPREADING: D2 = UNIFORM, RELATIVELY IMPERMEABLE SILTY OR CLAYEY TILL AT LEAST 20 FT THICK; NO EVIDENCE OF INTERBEDDED SAND AND GRAVEL.

APPENDIX D

FACILITY: 0434820 ROSELLE STATUS: A PUBLIC: Y COMM: Y TYPE WATER:
TAP: 01 WELL 1 STATUS: I
RAW SRCE: 20564 WELL NO 1 IRVING PK & ROSELLE RD NE STATUS: B

SAMPLE NO: 930145500 LOCATION: ROSELLE COLL DATE: 01/26/83 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: WHITE LAB RCVD: 01/29/83 RECEIVED BY: MAD
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 04/26/83 LAB SUPERVISOR: APF
SMPL PROJ: I-GWM INORG OBSRVATNS: SMPL PERIOD: 01/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	574.000				
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	267.000				
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	0.480		4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	14.000				
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	227.000				
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100	<	10.000		
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.510				
112T000	001	32730	PHENOLS, TOTAL RECOVERABLE UG/L	UG/L	5.000	<			
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	19.000				
115T000	001	00665	PHOSPHORUS, TOTAL MG/L AS P	MG/L	0.010				
116T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005	<	0.200		
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000		50.000		
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000	<	50.000		
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050	<	2.000		
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000	<	10.000		
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	87.000				
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	47.000				
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	35.000				
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	1.600				
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	50.000	<			
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	24.000		1000.000		
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	444.000				
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500	<			
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP	UG/L	3.000	<	10.000		
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICP	UG/L	5.000	<	50.000		
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000	<	5000.000		
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000	<			
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	823.000		1000.000		
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	7.000		150.000		
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000	<			
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000	<	50.000		
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	1655.000				
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000	<			
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	100.000	<	5000.000		
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	412.000				
500F000	001	72037	PUMPING RATE GPM	GAL/M	175.000				

SAMPLE NO: 9023520 LOCATION: WELL #1 COLL DATE: 02/03/83 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: A PACIONE LAB RCVD: 03/04/83 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:

FACILITY: 0434820 ROSELLE *** CONTINUED ***

SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 02/83 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(FC)-LAB(UMHOS/CM @ 25 C		790.000			
		00403	PH LABORATORY UNITS		7.800			
		00410	ALKALINITY,TOTAL MG/L AS CACO3		237.000			
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.710			
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005 <	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		373.000			
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		74.000			
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		42.000			
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		30.000			
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.300			
		00940	CHLORIDE,TOTAL MG/L AS CL		6.000			
		00945	SULFATE,TOTAL MG/L AS SO4		179.000			
		00951	FLUORIDE,TOTAL MG/L AS F		0.560	4.000		
		00956	SILICA,TOTAL MG/L AS SIO2		19.000			
		01002	ARSENIC,TOTAL RECOVERABLE UG/L AS AS		1.000	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		21.000	1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
		01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		440.000			
		01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP		3.000 <	10.000		
		01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICP		5.000 <	50.000		
		01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			
		01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		3.000 <	5000.000		
		01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		530.000	1000.000		
		01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		6.000	150.000		
		01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		3.000 <			
		01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		5.000 <	50.000		
		01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		1170.000			
		01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		4.000 <			
		01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		8.000 <	5000.000		
		01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000 <	10.000		
		70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		526.000			
		70304	TOTAL DISSOLVED SOLIDS MG/L BY EC		470.000			
		71900	MERCURY,TOTAL UG/L AS HG		0.110	2.000		

SAMPLE NO: D86230200 LOCATION: ROSELLE/LOMBARD WELL 1 COLL DATE: 01/26/88 DELIVERED BY: MAIL
SMPL TYPE: RAW COLLECTOR: WHITE LAB RCVD: 01/29/88 RECEIVED BY: D V
SMPL PURP: 5-SPEC/OTHR COMMENTS: VOCS LAB COMPL: 02/26/88 LAB SUPERVISOR: JTH
SMPL PROG: V-VOC OBSRVATNS: 2 VOC SMPL PERIOD: 01/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			

FACILITY: 0434820 ROSELLE *** CONTINUED ***

431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <		
431WV00	004	32104	BROMOFORM UG/L GC/MS	UG/L	1.000 <		
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <	5.000	
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	7.000	
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000 <		
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	100.000	
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <	5.000	
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000 <	200.000	
431WV00	011	32102	CARBON TETRACHLORIDE UG/L GC/MS	UG/L	1.000 <	5.000	
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	1.000 <	5.000	
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	5.000	
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <	100.000	
431WV00	015	34713	DICHLOROBENZENE UG/L	UG/L	1.000 <		
431WV00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000	
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000 <	1000.000	
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <	700.000	
431WV00	019	81551	XYLENE UG/L	UG/L	1.000 <	10000.000	
5001200	001	72037	PUMPING RATE GPM	GAL/M	175.000		

FACILITY: 0434820 ROSELLE STATUS: A PUBLIC: Y COMM: Y TYPE WATER:
TAP: 02 WELL NO 2 STATUS: I
RAW SRCE: 20565 WELL NO 2 100 SE OF WELL 1 STATUS: B

SAMPLE NO: 2003742 LOCATION: WELL COLL DATE: 06/28/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 06/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.610			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.100	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		58.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		51.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		32.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.900			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		19.000			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		188.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.430	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		20.000			
0000001	013	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		27.000	1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		335.000			
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000 <	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000 <	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000 <			

FACILITY: 0434820 ROSELLE *** CONTINUED ***

0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000 <	5000.000
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	330.000	1000.000
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000 <	50.000
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	5.000	150.000
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	5.000 <	
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	5.000 <	50.000
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	1563.000	
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	5.000 <	
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000 <	5000.000
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	50.000 <	
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000 <	10.000
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L	5.000 <	
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	612.000	
0000001	033	71900	MERCURY,TOTAL UG/L AS HG	0.010 <	2.000
0000001	034	00010	WATER TEMPERATURE DEG C	12.700	
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN	710.000	
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	142.000-	
0000001	037	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	880.000	
0000001	038	00400	PH PH UNITS	7.400	
0000001	039	00410	ALKALINITY,TOTAL MG/L AS CACO3	295.000	
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	230.000	
0000001	041	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	97.000	
0000001	042	90410		289.000	

SAMPLE NO: 3023520 LOCATION: WELL 62 COLL DATE: 02/03/83 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: A PACIONE LAB RCVD: 04/07/83 RECEIVED BY:
SMPL PURP: 1-ROUTINE COMMENTS: LAB COMPL: LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 02/83 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
		00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		750.000			
		00403	PH LABORATORY UNITS		7.800			
		00410	ALKALINITY,TOTAL MG/L AS CACO3		267.000			
		00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.470			
		00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100 <	10.000		
		00720	CYANIDE,TOTAL MG/L AS CN		0.005 <	0.200		
		00900	HARDNESS,EDTA MG/L AS CACO3		362.000			
		00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		78.000			
		00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		44.000			
		00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		34.000			
		00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		1.700			
		00940	CHLORIDE,TOTAL MG/L AS CL		4.700			
		00945	SULFATE,TOTAL MG/L AS SO4		160.000			
		00951	FLUORIDE,TOTAL MG/L AS F		0.520	4.000		
		00955	SILICA,TOTAL MG/L AS SIO2		20.000			
		01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS		1.000	50.000		
		01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		22.000	1000.000		
		01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500 <			

FACILITY: 0434820 ROSELLE *** CONTINUED ***

01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	380.000		
01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP	3.000	<	10.000
01034	CHROMIUM,TOTAL RECOVERABLE UG/L AS CR ANAL BY ICP	5.000	<	50.000
01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000	<	
01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	3.000	<	5000.000
01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	840.000		1000.000
01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000	<	50.000
01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	7.000		150.000
01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	3.000	<	
01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	5.000	<	50.000
01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	1120.000		
01087	VANADIUM,TOTAL RECOVERABLE UG/L AS V ANAL BY ICP	4.000	<	
01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	2.000	<	5000.000
01147	SELENIUM,TOTAL RECOVERABLE UG/L AS SE	1.000	<	10.000
70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	507.000		
70304	TOTAL DISSOLVED SOLIDS MG/L BY EC	450.000		
71900	MERCURY,TOTAL UG/L AS HG	0.050	<	2.000

SAMPLE NO: Z003741 LOCATION: WELL COLL DATE: 06/28/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSRVATNS: SMPL PERIOD: 06785 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000	<			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000	<	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000	<	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000	<			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000	<			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000	<			
0000001	007	34010	TOLUENE UG/L		1.000	<	1000.000		
0000001	008	34030	BENZENE UG/L		1.000	<	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000	<	100.000		
0000001	010	34371	ETHYLBENZENE UG/L		1.000	<	700.000		
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000	<	5.000		
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000	<	5.000		
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000	<			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000	<	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000	<	200.000		
0000001	016	39180	TRICHLOROETHYLENE UG/L		1.000	<	5.000		
0000001	017	00010	WATER TEMPERATURE DEG C		12.700				
0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN		310.000				
0000001	019	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		142.000-				
0000001	020	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		880.000				
0000001	021	00400	PH PH UNITS		7.400				
0000001	022	00410	ALKALINITY,TOTAL MG/L AS CACO3		295.000				
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		230.000				
0000001	024	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE		97.000				

FACILITY: 0434820 ROSELLE *** CONTINUED ***

0000001 025 90410 289.000

FACILITY: 0434820 ROSELLE STATUS: A PUBLIC: Y COMM: Y TYPE WATER:
TAP: 03 WELL NO 3 STATUS: A
RAW SRCE: 20566 WELL NO 3 IRVING PK & ARDMORE NE CORNER STATUS: A

SAMPLE NO: Z003740 LOCATION: WELL COLL DATE: 06/24/93 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: S-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 06/93 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.690				
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100	<	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010	<			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010	<	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		157.000				
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		83.000				
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		41.000				
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.900				
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		72.000				
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		408.000				
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.330		4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		23.000				
0000001	013	01002	ARSENIC,TOTAL RECOVERABLE UG/L AS AS		1.000		50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		22.000		1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		262.000				
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICP		3.000	<	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICP		5.000	<	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<			
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000	<	5000.000		
0000001	021	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP		2206.000		1000.000*		
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000	<	50.000		
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		11.000		150.000		
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000	<			
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3.000	<	50.000		
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		2020.000				
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		5.000	<			
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		149.000		5000.000		
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP		50.000	<			
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000	<	10.000		
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000	<			
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		1470.000				
0000001	033	71900	MERCURY,TOTAL UG/L AS HG		0.010	<	2.000		
0000001	034	00010	WATER TEMPERATURE DEG C		12.500				
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN		770.000				
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		96.000-				

FACILITY: 0434020 ROSELLE *** CONTINUED ***

0000001	037	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	1460.000
0000001	038	00400	PH PH UNITS	7.100
0000001	039	00410	ALKALINITY,TOTAL MG/L AS CACO3	385.000
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	125.000
0000001	041	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	54.000
0000001	042	90410		365.000

SAMPLE NO: Z003739 LOCATION: WELL COLL DATE: 05/24/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSRVATNS: SMPL PERIOD: 0685 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000	<			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000	<	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000	<	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000	<			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000	<			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000	<			
0000001	007	34010	TOLUENE UG/L		1.000	<	1000.000		
0000001	008	34030	BENZENE UG/L		1.000	<	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000	<	100.000		
0000001	010	34371	ETHYLBENZENE UG/L		1.000	<	700.000		
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000	<	5.000		
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000	<	5.000		
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000	<			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000	<	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000	<	200.000		
0000001	016	39180	TRICHLOROETHYLENE UG/L		1.000	<	5.000		
0000001	017	00010	WATER TEMPERATURE DEG C		12.500				
0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN		770.000				
0000001	019	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		96.000-				
0000001	020	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1460.000				
0000001	021	00400	PH PH UNITS		7.100				
0000001	022	00410	ALKALINITY,TOTAL MG/L AS CACO3		385.000				
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		125.000				
0000001	024	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE		54.000				
0000001	025	90410			365.000				

FACILITY: 0434620 ROSELLE STATUS: A PUBLIC: Y COMM: Y TYPE WATER:
TAP: 04 WELL NO 4 STATUS: A
RAW SRCE: 20567 WELL NO 4 371 SUMMERFIELD DR STATUS: A

SAMPLE NO: Z003716 LOCATION: WELL COLL DATE: 06/24/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 06/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.720				
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.100	<	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010	<			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010	<	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		104.000				
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		52.000				
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		42.000				
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.300				
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		53.000				
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		218.000				
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.390		4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		19.000				
0000001	013	01002	ARSENIC,TOTAL RECOVERABLE UG/L AS AS		2.000		50.000		
0000001	014	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP		40.000		1000.000		
0000001	015	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP		0.500	<			
0000001	016	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP		290.000				
0000001	017	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB		3.000	<	10.000		
0000001	018	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB		5.000	<	50.000		
0000001	019	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP		5.000	<			
0000001	020	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP		5.000	<	5000.000		
0000001	021	01045	IRON,TOTAL RECOVERABLE UG/L AS FEANAL BY ICP		1043.000		1000.000		
0000001	022	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB		5.000	<	50.000		
0000001	023	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP		12.000		150.000		
0000001	024	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP		5.000	<			
0000001	025	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP		3.000	<	50.000		
0000001	026	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP		1472.000				
0000001	027	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP		5.000	<			
0000001	028	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP		50.000	<	5000.000		
0000001	029	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP		50.000	<			
0000001	030	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE		1.000		10.000		
0000001	031	32730	PHENOLS, TOTAL RECOVERABLE UG/L		5.000	<			
0000001	032	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L		1060.000				
0000001	033	71900	MERCURY,TOTAL UG/L AS HG		0.010	<	2.000		
0000001	034	00010	WATER TEMPERATURE DEG C		11.500				
0000001	035	00059	FLOW (PUMPING) RATE GAL/MIN		890.000				
0000001	036	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		102.000-				
0000001	037	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1040.000				
0000001	038	00400	PH PH UNITS		7.200				
0000001	039	00410	ALKALINITY,TOTAL MG/L AS CACO3		306.000				
0000001	040	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		175.000				

FACILITY: 0434820 ROSELLE *** CONTINUED ***

0000001	041	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE	125.000
0000001	042	90410	.	299.000

SAMPLE NO: 1003715 LOCATION: WELL COLL DATE: 06/24/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: C-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSRVATNS: SMPL PERIOD: 06/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTP	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <	1000.000		
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <	100.000		
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <	700.000		
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <	5.000		
0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS		1.000 <	5.000		
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS		1.000 <			
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS		1.000 <	7.000		
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS		1.000 <	200.000		
0000001	016	39180	TRICHLOROETHYLENE UG/L		1.000 <	5.000		
0000001	017	00010	WATER TEMPERATURE DEG C		11.500			
0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN		890.000			
0000001	019	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS		102.000-			
0000001	020	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C		1040.000			
0000001	021	00400	PH PH UNITS		7.200			
0000001	022	00410	ALKALINITY,TOTAL MG/L AS CACO3		306.000			
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN		175.000			
0000001	024	72019	DEPTH FROM LAND SURFACE TO WATER SURFACE		125.000			
0000001	025	90410			299.000			

FACILITY: 0434620 ROSELLE STATUS: A PUBLIC: Y COMM: Y TYPE WATER:
TAP: 05 WELL NO 5 STATUS: A
RAW SRCE: 20568 WELL NO 5 BRYN MAWR & MENSHING SE STATUS: A

SAMPLE NO: 9801452O0 LOCATION: ROSELLE COLL DATE: 01/26/88 DELIVERED BY: UPS
SMPL TYPE: RAW COLLECTOR: WHITE LAB RCVD: 01/29/88 RECEIVED BY: MAD
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 04/26/88 LAB SUPERVISOR: RPF
SMPL PROG: 2-GWM INORG OBSRVATNS: SMPL PERIOD: 01/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT		STANDARDS: DRINK WTR	STANDARDS: RAW WTR	TRIGGER LEVEL
102T000	001	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	MG/L	382.000				
103T000	001	00410	ALKALINITY,TOTAL MG/L AS CACO3	MG/L	282.000				
107T000	001	00951	FLUORIDE,TOTAL MG/L AS F	MG/L	1.480		4.000		
108T000	001	00940	CHLORIDE,TOTAL MG/L AS CL	MG/L	7.400				
109T000	001	00945	SULFATE,TOTAL MG/L AS SO4	MG/L	52.000				
110T000	001	00630	NITRATE & NITRITE TOTAL MG/L AS N	MG/L	0.100	<	10.000		
111T000	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N	MG/L	0.510				
112T000	001	32730	PHENOLS, TOTAL RECOVERABLE UG/L	UG/L	5.000	<			
114T000	001	00956	SILICA,TOTAL MG/L AS SIO2	MG/L	6.900				
115T000	001	00665	PHOSPHORUS, TOTAL MG/L AS P	MG/L	0.010	<			
119T000	001	00720	CYANIDE,TOTAL MG/L AS CN	MG/L	0.005	<	0.200		
144T000	001	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	UG/L	1.000	<	50.000		
151T100	001	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	UG/L	5.000	<	50.000		
153T000	001	71900	MERCURY,TOTAL UG/L AS HG	UG/L	0.050	<	2.000		
155T000	001	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	UG/L	1.000	<	10.000		
177T100	001	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	62.000				
177T100	002	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP	MG/L	21.000				
177T100	003	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP	MG/L	34.000				
177T100	004	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP	MG/L	9.700				
177T100	005	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	UG/L	50.000	<			
177T100	006	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	UG/L	191.000		1000.000		
177T100	007	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	UG/L	514.000				
177T100	008	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	UG/L	0.500	<			
177T100	009	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	UG/L	3.000	<	10.000		
177T100	010	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	UG/L	5.000	<	50.000		
177T100	011	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	UG/L	5.000	<	5000.000		
177T100	012	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	UG/L	5.000	<			
177T100	013	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	UG/L	50.000	<	1000.000		
177T100	014	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	UG/L	6.000		150.000		
177T100	015	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	UG/L	5.000	<			
177T100	016	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	UG/L	3.000	<	50.000		
177T100	017	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	UG/L	2884.000				
177T100	018	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	UG/L	5.000	<			
177T100	019	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	UG/L	50.000	<	5000.000		
177T100	020	82394	HARDNESS, CALC - MG/L	MG/L	242.000				
630F000	001	72037	PUMPING RATE GPM	GAL/M	1000.000				

SAMPLE NO: 0362301O0 LOCATION: ROSELLE/LOMBARD WELL 5 COLL DATE: 01/26/88 DELIVERED BY: MAIL
SMPL TYPE: RAW COLLECTOR: WHITE LAB RCVD: 01/29/88 RECEIVED BY: D V
SMPL PURP: 5-SPEC/OTHR COMMENTS: VOCS LAB COMPL: 02/26/88 LAB SUPERVISOR: JTH

FACILITY: 0434820 ROSELLE *** CONTINUED ***

SMPL PROG: V-VOC OBSRVATNS: 2 VOC SMPL PERIOD: 01/88 FUND CODE: PW30

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
431WV00	001	32106	CHLOROFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	002	32101	BROMODICHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	003	32105	DIBROMOCHLOROMETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	004	32104	BROMOFORM UG/L GC/MS	UG/L	1.000 <			
431WV00	005	34423	METHYLENE CHLORIDE UG/L	UG/L	1.000 <	5.000		
431WV00	006	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	7.000		
431WV00	007	34496	1,1-DICHLOROETHANE UG/L GC/MS	UG/L	1.000 <			
431WV00	008	34546	TRANS-1,2-DICHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	100.000		
431WV00	009	34531	1,2-DICHLOROETHANE UG/L	UG/L	1.000 <	5.000		
431WV00	010	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	UG/L	1.000 <	200.000		
431WV00	011	32102	CARBON TETRACHLORIDE UG/L GC/MS	UG/L	1.000 <	5.000		
431WV00	012	39180	TRICHLOROETHYLENE UG/L	UG/L	1.000 <	5.000		
431WV00	013	34475	TETRACHLOROETHYLENE UG/L GC/MS	UG/L	1.000 <	5.000		
431WV00	014	34301	CHLOROBENZENE UG/L	UG/L	1.000 <	100.000		
431WV00	015	34716	DICHLOROBENZENE UG/L	UG/L	1.000 <			
431WV00	016	78124	BENZENE UG/L	UG/L	1.000 <	5.000		
431WV00	017	78131	TOLUENE UG/L	UG/L	1.000 <	1000.000		
431WV00	018	78113	ETHYLBENZENE UG/L	UG/L	1.000 <	700.000		
431WV00	019	81551	XYLENE UG/L	UG/L	1.000 <	10000.000		
5001200	001	72037	PUMPING RATE GPM	GAL/M	1000.000			

FACILITY: 0434820 ROSELLE STATUS: A PUBLIC: Y COMM: Y TYPE WATER:
TAP: 06 WELL NO 6 STATUS: I
RAW SRCE: 20569 WELL NO 6 RODENBURG & BRYN MAWR SE STATUS: A

SAMPLE NO: Z003724 LOCATION: WELL COLL DATE: 10/24/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: S-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: I-GWM INORG OBSRVATNS: SMPL PERIOD: 10/85 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	00610	NITROGEN,AMMONIA TOTAL MG/L AS N		0.720			
0000001	002	00630	NITRATE & NITRITE TOTAL MG/L AS N		0.160	10.000		
0000001	003	00665	PHOSPHORUS, TOTAL MG/L AS P		0.010			
0000001	004	00720	CYANIDE,TOTAL MG/L AS CN		0.010 <	0.200		
0000001	005	00916	CALCIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		71.000			
0000001	006	00927	MAGNESIUM,TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP		42.000			
0000001	007	00929	SODIUM,TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP		25.000			
0000001	008	00937	POTASSIUM,TOTAL RECOVERABLE MG/L AS K ANAL BY ICP		2.100			
0000001	009	00940	CHLORIDE,TOTAL MG/L AS CL		10.000			
0000001	010	00945	SULFATE,TOTAL MG/L AS SO4		95.000			
0000001	011	00951	FLUORIDE,TOTAL MG/L AS F		0.470	4.000		
0000001	012	00956	SILICA,TOTAL MG/L AS SIO2		21.000			

FACILITY: 0434820 ROSELLE *** CONTINUED ***

0000001	015	00956	SILICA,TOTAL MG/L AS SIO2	21.000		
0000001	014	01002	ARSENIC,TOTAR RECOVERABLE UG/L AS AS	3.000	50.000	
0000001	015	01007	BARIUM,TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP	47.000	1000.000	
0000001	016	01012	BERYLLIUM,TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP	0.500 <		
0000001	017	01022	BORON,TOTAL RECOVERABLE UG/L AS B ANAL BY ICP	262.000		
0000001	018	01027	CADMIUM,TOTAL RECOVERABLE UG/L AS CD ANAL BY ICB	3.000 <	10.000	
0000001	019	01034	CHROMIUM,TOTAL RECOVERABLE UG/L ASCR ANAL BY ICB	5.000 <	50.000	
0000001	020	01037	COBALT,TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP	5.000 <		
0000001	021	01042	COPPER,TOTAL RECOVERABLE UG/L AS CU ANAL BY ICP	5.000 <	5000.000	
0000001	022	01045	IRON,TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP	826.000	1000.000	
0000001	023	01051	LEAD,TOTAL RECOVERABLE UG/L AS PB	5.000 <	50.000	
0000001	024	01055	MANGANESE,TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP	7.000	150.000	
0000001	025	01067	NICKEL,TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP	5.000 <		
0000001	026	01077	SILVER,TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP	3.000 <	50.000	
0000001	027	01082	STRONTIUM,TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP	1040.000		
0000001	028	01087	VANADIUM,TOTAL RECOVERABLE UG/L ASV ANAL BY ICP	5.000 <		
0000001	029	01092	ZINC,TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP	50.000 <	5000.000	
0000001	030	01105	ALUMINUM,TOTAL RECOVERABLE UG/L ASAL ANAL BY ICP	50.000 <		
0000001	031	01147	SELENIUM,TOTAL RECOVERABLE UG/L ASSE	1.000 <	10.000	
0000001	032	32730	PHENOLS, TOTAL RECOVERABLE UG/L	20.000		
0000001	033	70300	RESIDUE,TOTAL FILTERABLE @180 C,MG/L	438.000		
0000001	034	71900	MERCURY,TOTAL UG/L AS HG	0.010 <	2.000	
0000001	035	00010	WATER TEMPERATURE DEG C	10.500		
0000001	036	00059	FLOW (PUMPING) RATE GAL/MIN	275.000		
0000001	037	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	130.000-		
0000001	038	00095	CONDUCTIVITY(EC)-LAB(UMHOS/CM @ 25 C	605.000		
0000001	039	00400	PH PH UNITS	7.400		
0000001	040	00410	ALKALINITY,TOTAL MG/L AS CACO3	275.000		
0000001	041	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	505.000		
0000001	042	90410		274.000		

SAMPLE NO: 2003723 LOCATION: WELL COLL DATE: 10/24/85 DELIVERED BY:
SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB RCVD: 00/00/00 RECEIVED BY:
SMPL PURP: 5-SPEC/OTHR COMMENTS: LAB COMPL: 00/00/00 LAB SUPERVISOR:
SMPL PROG: V-VOC OBSRVATNS: SMPL PERIOD: 10/35 FUND CODE:

ANALYSIS ID	RSLT NO	STORET NO	DESCRIPTION	UNITS	RESULT	STANDARDS DRINK WTR	STANDARDS RAW WTR	TRIGGER LEVEL
0000001	001	32101	BROMODICHLOROMETHANE UG/L CG/MS		1.000 <			
0000001	002	32102	CARBON TETRACHLORIDE UG/L CG/MS		1.000 <	5.000		
0000001	003	32103	1,2-DICHLOROETHANE UG/L		1.000 <	5.000		
0000001	004	32104	BROMOFORM UG/L CG/MS		1.000 <			
0000001	005	32105	DIBROMOCHLOROMETHANE UG/L GC/MS		1.000 <			
0000001	006	32106	CHLOROFORM UG/L GC/MS		1.000 <			
0000001	007	34010	TOLUENE UG/L		1.000 <	1000.000		
0000001	008	34030	BENZENE UG/L		1.000 <	5.000		
0000001	009	34301	CHLOROBENZENE UG/L		1.000 <	100.000		
0000001	010	34371	ETHYLBENZENE UG/L		1.000 <	700.000		
0000001	011	34423	METHYLENE CHLORIDE UG/L		1.000 <	5.000		

FACILITY: 043-820 ROSELLE *** CONTINUED ***

0000001	012	34475	TETRACHLOROETHYLENE UG/L GC/MS	1.000	<	5.000
0000001	013	34496	1,1-DICHLOROETHANE UG/L GC/MS	1.000	<	
0000001	014	34501	1,1-DICHLOROETHYLENE UG/L GC/MS	1.000	<	7.000
0000001	015	34506	1,1,1-TRICHLOROETHANE UG/L GC/MS	1.000	<	200.000
0000001	016	39180	TRICHLOROETHYLENE UG/L	1.000	<	5.000
0000001	017	00010	WATER TEMPERATURE DEG C	10.500		
0000001	018	00059	FLOW (PUMPING) RATE GAL/MIN	275.000		
0000001	019	00090	OXIDATION-REDUCTION POTENTIAL (EH) MILLIVOLTS	130.000-		
0000001	020	00095	CONDUCTIVITY(FC)-LAB(UMHOS/CM @ 25 C	605.000		
0000001	021	00400	PH PH UNITS	7.400		
0000001	022	00410	ALKALINITY,TOTAL MG/L AS CACO3	275.000		
0000001	023	72004	FLOW (PUMPING) TIME PRIOR TO SAMPLING MIN	505.000		
0000001	024	90410		274.000		

APPENDIX E

HAZARD REVIEW WORKSHEET

1. Unique I.D. Number 2 0 5 6 7 - 0 2 - _ _ , Distance and Direction from the Wellhead 25 ft. east of the well

2. Nature of Business Recreational Center

3. DLPC Permit Number(s) and Description (e.g., RCRA, Generic, Solid Waste, UIC, etc.): None

4. DAPC Permit Number(s) and Description: None

5. DWPC Permit Numbers and Description (e.g., NPDES, Industrial Pre-Treatment, Sewer Plans, etc.): None

6. ERU Incidents and Description: None

7. ERU 313 Reports and Description: None

8. ESDA 302/303 Reports and Description: None

9. ESDA 311/312 Reports and Description: None

10. PWS compliance monitoring conducted and describe the results (e.g., VOC/VOA sample detects, etc.): None

11. ISFM list the underground storage tanks registered, provide the owner name & address:

Owner Name	Address

12. Is the site sewered or non-sewered? Sewered

If the site is not sewered, describe: _____

13. Has on-site past or present landfilling, land treating, or surface impoundment of waste, other than landscape waste or construction and demolition debris occured?

( ) Yes. If yes, describe: _____

(X) No.

14. Are there currently any on-site piles of special or hazardous waste?

( ) Yes. If yes, describe: _____

(X) No.

15. Are on-site piles of waste (other than special or hazardous wastes) managed according to Agency guidelines?

( ) Yes. If yes, describe: _____

(X) No.

16. Are there currently any underground storage tanks present on-site, and will any underground tanks be installed in the future?

( ) Yes. If yes, describe: _____

(X) No.

17(a). Has any situation(s) occurred at this site which resulted in a "release" of any hazardous substance or petroleum?

( ) Yes (continue to next question)
(X) No (stop here)

(b). Have any hazardous substances or petroleum, which were released, come into contact with the ground surface at this site? (Note--do not automatically exclude paved or otherwise covered areas that may still have allowed chemical substances to penetrate into the ground.)

( ) Yes (continue to next question)
( ) No (stop here)

(c). Have any of the following actions/events been associated with the release(s) referred to in question 17(b)?

( ) Hiring of a cleanup contractor to remove obviously contaminated materials including subsoils

( ) Replacement or major repair of damaged facilities

( ) Assignment of in-house maintenance staff to remove obviously contaminated materials including subsoils

( ) Designation, by IEPA or the ESDA, of a release as "significant" under the Illinois Chemical Safety Act

( ) Reordering or other replenishment of inventory due to the amount of substance lost

( ) Temporary or more long-term monitoring of groundwater at or near the site

( ) Stop usage of an on-site or nearby water well because of offensive characteristics of the water

( ) Coping with fumes from subsurface storm drains or inside basements

( ) Signs of substances leaching out of the ground along the base of slopes or at other low points on or adjacent to the site

(d). The on-site release(s) may have been of sufficient magnitude to contaminate groundwaters. Summarize the problem.

_____
_____
_____
_____
_____

18. Are there more than 100 gallons of either pesticides or organic solvents, or 10,000 gallons of any hazardous substance, or 30,000 gallons of petroleum present at any time?

( ) Yes. If yes, describe: _____
_____

(X) No.

19. Do any of the regulated entities have groundwater monitoring systems, and have any exceeded compliance requirements?

( ) Yes. If yes, describe: _____
_____

(X) No.

20. After considering all of the above criteria does this site potentially pose a hazard to groundwater?

( ) Yes. If yes, describe: _____
_____
_____
_____
_____

(X) No.

APPENDIX F

ROSELLE

The village of Roselle (16,948) installed a public water supply in 1924. Six wells are in use. In 1949 there were 245 services, all metered; the estimated average and maximum pumpages were 50,000 and 75,000 gpd, respectively. In 1984 there were 5875 services, all metered; the average pumpage was 1,740,400 gpd. The water is chlorinated and treated with polyphosphate to keep iron in solution; in addition, the water from Well Nos. 1, 2, 3, 4, and 6 is fluoridated.

WELL NO. 1, open to dolomite of the Upper Bedrock Aquigroup (Silurian System), was completed in 1924 to a depth of 182 ft (sounded at 181.5 ft in 1917) by the W. L. Thorne Co., Des Plaines. The well is located inside the fire department garage at the northeast corner of Roselle Road and Irving Park Blvd., approximately 1950 ft S and 2150 ft W of the NE corner of Section 3, T40N, R10E. The land surface elevation at the well is approximately 770 ft.

A 10-in. diameter hole was drilled to a depth of 182 ft. The well is cased with 10-in. pipe from about 2 ft above the pumphouse floor to a depth of 139.4 ft.

On January 30, 1926, the well reportedly produced 110 gpm for 1.6 hr with a drawdown of 14.0 ft from a nonpumping water level of 37.3 ft.

On May 18, 1917, after 6.5 hr of pumping at rates of 170 to 180 gpm, the drawdown was 58 ft from a nonpumping water level of 42 ft below the pump base.

In October 1950, the nonpumping water level was reported to be 40 ft.

A production test was conducted by the J. P. Miller Artesian Well Co., Brookfield, on March 1, 1955. During pumping at a rate of 140 gpm, the drawdown was 60 ft from a nonpumping water level of 47 ft. On March 9, this well was acidized with about 1000 gal of HCl, and on March 11, the well reportedly produced 97 gpm for 1.3 hr with a drawdown of 78 ft from a nonpumping water level of 42 ft.

Nonpumping water levels were reported to be 56 ft in March 1956; 46 ft below the pump base on April 9, 1958; 35 ft in January 1961; 44 ft in January 1962; 70 ft in November 1967; 68 ft in June 1969; 69 ft in November 1970; and 50 ft in December 1971.

The pumping equipment presently installed is a 7-in. Peerless turbine pump (Serial No. 34545) set at about 160 ft, rated at about 175 gpm at about 235 ft TDH, and powered by a 15-hp 1800 rpm U. S. electric motor. A 10-ft section of 5-in. suction pipe is attached to the pump intake.

A mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. C007667) of a sample collected May 1, 1974, after pumping for 30 min at 175 gpm, showed the water to have a hardness of 322 mg/l, total dissolved minerals of 462 mg/l, and an iron content of 1.0 mg/l.

WELL NO. 2, open to dolomite of the Upper Bedrock Aquigroup (Silurian System), was completed in December 1953 to a depth of 183 ft by the Layne-Western Co., Aurora. The well is located in a room at the north end of the village hall about 100 ft southeast of Well No. 1, approximately 2060 ft S and 2100 ft W of the NE corner of Section 3, T40N, R10E. The land surface elevation at the well is 770.2 ft.

A drillers log of Well No. 2 follows:

Strata	Thickness (ft)	Depth (ft)
Drift	55	55
Gravel, muddy (no water)	50	105
Limestone	75	180
Red rock shale	3	183

A 10-in. diameter hole was drilled to a depth of 183 ft. The well is cased with 10-in. wrought iron pipe from about 1.5 ft above the wellhouse floor to a depth of 145 ft.

A production test was conducted on December 10, 1953, by representatives of the driller, the State Water Survey, and Baxter & Woodman, Consulting Engineers. After 2.9 hr of pumping at rates ranging from 333 to 345 gpm, the drawdown was 68 ft from a nonpumping water level of 45 ft below land surface. During this period, Well No. 1 was pumping for the first 1.9 hr. Pumping was continued for 54 min at rates of 270 to 267 gpm with a drawdown of 42 ft. After a 5-min idle period, pumping was continued for 1 hr at rates of 145 to 142 gpm with a drawdown of 10 ft. After an additional 3 hr of pumping at rates ranging from 318 to 372 gpm, the final drawdown was 60 ft. Five min after pumping was stopped, the water level had recovered to 48 ft.

Nonpumping water levels were reported to be 42 ft in March 1956, and 48 ft in July 1956.

On March 19, 1959, the well reportedly produced 400 gpm for 20 min with a drawdown of 36 ft from a nonpumping water level of 54 ft below the pump base.

Nonpumping water levels were reported to be 53 ft in January 1961; 69 ft in November 1967; 66 ft in June 1969; and 64 ft in December 1971.

The pumping equipment presently installed is a Peerless turbine pump set at 160 ft, rated at 350 gpm at about 237 ft head, and powered by a 25-hp 1760 rpm U. S. electric motor.

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. C001355) is for a water sample from the well collected October 2, 1978, after 2 hr of pumping at 320 gpm.

WELL NO. 2, LABORATORY NO. C001355

		mg/l	me/l			mg/l	me/l
Iron	Fe	0.9		Silica	SiO_2	20	
Manganese	Mn	0.00		Fluoride	F	0.7	0.04
Ammonium	NH_4	0.66	0.04	Boron	B	0.4	
Sodium	Na	30	1.30	Nitrate	NO_3	0.00	0.00
Potassium	K	1.8	0.05	Chloride	Cl	3	0.08
Calcium	Ca	66	3.29	Sulfate	SO_4	131	2.72
Magnesium	Mg	38	3.13	Alkalinity (as $CaCO_3$)		240	4.80
Arsenic	As	0.000		Hardness (as $CaCO_3$)		322	6.44
Barium	Ba	0.0					
Cadmium	Cd	0.00		Total dissolved			
Chromium	Cr	0.00		minerals		464	
Copper	Cu	0.00					
Lead	Pb	0.00					
Mercury	Hg	0.0000					
Nickel	Ni	0.0					
Selenium	Se	0.00					
Silver	Ag	0.00					
Zinc	Zn	0.01		pH (as rec'd)		8.1	

WELL NO. 3 was completed in December 1959 to a depth of 260 ft by the Shaver Well Drilling Co., Lombard. The major water-yielding unit in this well is dolomite of the Upper Bedrock Aquigroup (Silurian System). The well also penetrates shale in the upper part of the Maquoketa Group. The well is located about 50 ft north of Irving Park Road south of the Milwaukee RR tracks, and 600 ft east of the junction of Ardmore Ave., approximately 1600 ft N and 1300 ft E of the SW corner of Section 2, T40N, R10E. The land surface elevation at the well is approximately 760 ft.

A drillers log of Well No. 3 follows:

Strata	Thickness (ft)	Depth (ft)
Glacial till	140	140
Niagaran limestone	90	230
Shale	30	260

A 12-in. diameter hole was drilled to a depth of 260 ft. The well is cased with 12-in. wrought iron pipe from about 1.5 ft above the wellhouse floor to a depth of 140 ft.

A production test was conducted by J. Richard Koehler, Consulting Engineer, on January 3-4, 1960. After 24 hr of pumping at rates of 380 to 900 gpm, the final drawdown was 58 ft from a nonpumping water level of 45 ft. Thirty min after pumping was stopped, the water level had recovered to 60 ft.

Nonpumping water levels were reported to be 66 ft in December 1963; 52 ft in January 1966; 54 ft in January 1967; 70 ft in November 1967; 68 ft in June 1969; and 70 ft in December 1970.

The pumping equipment presently installed is a 10-stage Peerless turbine pump set at 150 ft, rated at 800 gpm, and powered by a 60-hp 1800 rpm U. S. electric motor. The well is equipped with 150 ft of airline.

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. B27786) is for a water sample from the well collected January 15, 1976, after 1 hr of pumping at 750 gpm. Hydrogen sulfide was apparent when a previous sample was collected.

WELL NO. 3, LABORATORY NO. B27786

		mg/l	me/l			mg/l	me/l
Iron	Fe	1.2		Silica	SiO_2	21	
Manganese	Mn	0.02		Fluoride	F	0.4	0.02
Ammonium	NH_4	0.8	0.04	Boron	B	0.4	
Sodium	Na	33	1.44	Cyanide	CN	0.00	
Potassium	K	2.3	0.06	Nitrate	NO_3	0.0	0.00
Calcium	Ca	106	5.29	Chloride	Cl	22	0.62
Magnesium	Mg	58	4.77	Sulfate	SO_4	230	4.78
				Alkalinity (as $CaCO_3$)		296	5.92
Arsenic	As	0.00					
Barium	Ba	0.0		Hardness (as $CaCO_3$)		503	10.06
Cadmium	Cd	0.00					
Chromium	Cr	0.00		Total dissolved			
Copper	Cu	0.00		minerals		666	
Lead	Pb	0.00		pH (as rec'd)		7.9	
Mercury	Hg	0.0000		Radioactivity			
Nickel	Ni	0.0		Alpha pc/l		3.9	
Selenium	Se	0.00		± deviation		2.5	
Silver	Ag	0.00		Beta pc/l		4.4	
Zinc	Zn	0.0		± deviation		2.3	

Prior to the construction of Well No. 4, a test well, located in the northwest corner of the southwest quarter of Section 10, T40N, R10E, was constructed in June 1971 to a depth of 137 ft by the J. P. Miller Artesian Well Co., Brookfield.

WELL NO. 4 was completed in April 1972 to a depth of 195 ft by the J. P. Miller Artesian Well Co., Brookfield. The water-yielding units in this well are sand and gravel of the Prairie Aquigroup and dolo-

mite of the Upper Bedrock Aquigroup (Silurian System). The well is located at 371 Summerfield Drive about 200 ft southwest of Mensching Road, approximately 2480 ft N and 215 ft E of the SW corner of Section 10, T40N, R10E. The land surface elevation at the well is approximately 790 ft.

A drillers log of Well No. 4 follows:

Strata	Thickness (ft)	Depth (ft)
Brown clay	12	12
Blue clay	75	87
Gravel	29	116
Gravel with clay	11	127
Limestone	68	195

A 36-in. diameter hole was drilled to a depth of 116 ft, reduced to 30 in. between 116 and 130 ft, and finished 18 in. in diameter from 130 to 195 ft. The well is cased with 36-in. steel pipe from land surface to a depth of 25 ft, 20-in. OD steel pipe from about 2 ft above land surface to a depth of 109 ft, and 20-in. steel pipe from 119 ft to a depth of 130 ft. A 10-ft length of 20-in. No. 125 slot Cater stainless steel screen was installed from 109 ft to a depth of 119 ft. The annulus between the 36- and 20-in. casings and between the bore hole and the 20-in. casing-screen assembly is filled with concrete from 0 to 20 ft, with impervious fill from 20 to 70 ft, and with No. 3 Muscatine gravel from 70 to 119 ft. A concrete seal is placed outside the 20-in. pipe from 119 to 130 ft.

After acidizing with 2000 gal of HCl, the well reportedly produced 900 gpm for 24 hr on April 5-6, 1972, with a drawdown of 69 ft from a nonpumping water level of 88 ft below land surface. During this test, three private residence wells and a test well were observed.

The pumping equipment presently installed is a 12-in., 3-stage Johnston turbine pump set at 180 ft, rated at 800 gpm at about 172 ft TDH, and powered by a 50-hp U. S. electric motor. A 5-ft section of 8-in. suction pipe is attached to the pump intake. The well is equipped with 180 ft of airline.

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. B31500) is for a water sample from the well collected January 24, 1978, after 2.5 hr of pumping at 600 gpm.

WELL NO. 4, LABORATORY NO. B31600

		mg/l	me/l			mg/l	me/l
Iron	Fe	0.5		Silica	SiO_2	21	
Manganese	Mn	0.00		Fluoride	F	0.5	0.03
Ammonium	NH_4	0.8	0.04	Boron	B	0.5	
Sodium	Na	30	1.30	Cyanide	CN	0.00	
Potassium	K	2.6	0.07	Nitrate	NO_3	0.0	0.00
Calcium	Ca	65	3.24	Chloride	Cl	4.6	0.13
Magnesium	Mg	34	2.80	Sulfate	SO_4	130	2.70
				Alkalinity (as $CaCO_3$)		232	4.64
Arsenic	As	0.00					
Barium	Ba	0.1		Hardness (as $CaCO_3$)		304	6.08
Cadmium	Cd	0.00					
Chromium	Cr	0.00		Total dissolved			
Copper	Cu	0.00		minerals		416	
Lead	Pb	0.00					
Mercury	Hg	0.0001					
Nickel	Ni	0.0					
Selenium	Se	0.00					
Silver	Ag	0.00					
Zinc	Zn	0.0		pH (as rec'd)		7.8	

WELL NO. 5 was completed in March 1978 to a depth of 1423 ft by the Wehling Well Works, Beecher. The water-yielding unit in this well is the Midwest Aquigroup (Cambrian-Ordovician aquifer). The well also penetrates the upper part of the Eau Claire Formation. The well is located at the southeast corner of Bryn Mawr Ave. and Mensching Road, approximately 96 ft S and 1913 ft W of the NE corner of Section 9, T40N, R10E. The land surface elevation at the well is approximately 790 ft.

A drillers log of Well No. 5 follows:

Strata	Thickness (ft)	Depth (ft)
Drift	133	133
Broken lime	37	170
Lime	38	208
Shale	85	293
Shale and lime	102	395
Lime with some shale	5	400
Galena-Platteville dolomite	358	758
Sand	255	1013
Red shale	12	1025
Sand with red shale	10	1035
Lime and sand with shale	23	1058
Lime	80	1138
Lime sand and shale	90	1228
Sandstone	180	1408
Shale	15	1423

A 30-in. diameter hole was drilled to a depth of 174 ft, reduced to 25.2 in. between 174 and 434 ft, reduced to 21.5 in. between 434 and 1068 ft, and finished 17.2 in. in diameter from 1068 to 1423 ft. The well is cased with 30-in. black steel pipe from about 1 ft above land surface to a depth of 50 ft, 26-in. black steel pipe from about 1 ft above land surface

to a depth of 174 ft (cemented in), 22-in. black steel pipe from about 1 ft above land surface to a depth of 434 ft (cemented in), and an 18-in. black steel liner from 968 ft to a depth of 1068 ft.

A production test was conducted by the driller on June 22, 1978. After 6.4 hr of pumping at rates ranging from 1300 to 1020 gpm, the final drawdown was 408 ft from a nonpumping water level of 545 ft below land surface. The water level recovered to 703 ft after pumping had been stopped for 2.6 hr.

A second production test was conducted by the driller on June 26, 1978. After 13.5 hr of pumping at rates ranging from 1288 to 823 gpm, the final drawdown was 229 ft from a nonpumping water level of 681 ft below land surface.

The pumping equipment presently installed is a 13-in., 15-stage Byron Jackson submersible pump set at 1060 ft, rated at 1000 gpm at about 1260 ft head, and powered by a 450-hp Byron Jackson electric motor.

The following mineral analysis made by the Illinois Environmental Protection Agency (Lab. No. B040154) is for a water sample from the well collected March 31, 1982, after 1 hr of pumping at 850 gpm.

WELL NO. 5, LABORATORY NO. B040154

		mg/l	me/l			mg/l	me/l
Iron	Fe	0 098		Silica	SiO_2	6 6	
Manganese	Mn	0 014		Fluoride	F	1 46	0.08
Ammonium	NH_4	0 7	0 04	Boron	B	0 62	
Sodium	Na	47	2.04	Cyanide	CN	<0 005	
Potassium	K	15 0	0.38	Nitrate	NO_3	0.4	0.01
Calcium	Ca	65	3 24	Chloride	Cl	9.1	0.26
Magnesium	Mg	27.1	2 23	Sulfate	SO_4	65	1.35
Strontium	Sr	0.59		Alkalinity (as $CaCO_3$)		316	6.32
Arsenic	As	<0.001		Hardness (as $CaCO_3$)		266	5.32
Barium	Ba	0 055					
Beryllium	Be	<0.0020		Total dissolved			
Cadmium	Cd	<0.004		minerals		446	
Chromium	Cr	<0 006					
Cobalt	Co	0 017					
Copper	Cu	0.006					
Lead	Pb	<0.005					
Mercury	Hg	<0.00005					
Nickel	Ni	0.013					
Selenium	Se	<0 001					
Silver	Ag	<0.005					
Vanadium	V	<0 004					
Zinc	Zn	0 011		pH (as rec'd)		7.3	

WELL NO. 6, finished in sand and gravel of the Prairie Aquigroup, was completed in April 1977 to a depth of 127 ft by the Layne-Western Co., Aurora. The well is located at the southeast corner of Rodenburg Road and Bryn Mawr Ave., approximately 1400 ft S and 250 ft W of the NE corner of Section 8, T40N, R10E. The land surface elevation at the well is approximately 790 ft.

A drillers log of Well No. 6 follows:

Strata	*Thickness (ft)*	*Depth (ft)*
Brown clay	11	11
Sand and gravel	1	12
Gray silty clay with gravel mixed in	33	45
Gray silty clay - occasional sand and gravel layers	30	75
Gray sandy silty clay - occasional sand and gravel	37	112
Coarse sand to coarse gravel	5	117
Fine sand to coarse gravel with boulders	10	127
Gray silty clay	2	129

A 38-in. diameter hole was drilled to a depth of 129 ft. The well is cased with 16-in. steel pipe from about 1.5 ft above the wellhouse floor to a depth of 112 ft followed by 15 ft of 16-in. No. 60 slot Layne stainless steel screen. The annulus between the bore hole and the casing-screen assembly is filled with cement from 0 to 20 ft, with clay and cuttings from 20 to 97 ft, and with 15 tons of Nos. 1 and 2 Muscatine gravel from 97 to 129 ft.

A production test was conducted by the driller on April 8-9, 1977. After 24 hr of pumping at rates ranging from 289 to 302 gpm, the final drawdown was 40 ft from a nonpumping water level of 64 ft below land surface. The water level recovered to 66 ft after pumping had been stopped for 2.5 hr.

On May 7, 1980, the well reportedly produced 300 gpm with a drawdown of 31 ft from a nonpumping water level of 64 ft.

The pumping equipment presently installed consists of a 30-hp U. S. electric motor, an 8-in., 10-stage Layne & Bowler turbine pump (No. 87254) set at 110 ft, rated at 295 gpm at about 296 ft TDH, and has 110 ft of 5-in. column pipe. The well is equipped with 112 ft of airline.

A partial analysis of a sample (Lab. No. 204885) collected during the initial production test, after pumping for 24 hr at rates of 289 to 302 gpm, showed the water to have a hardness of 292 mg/l, total dissolved minerals of 396 mg/l, and an iron content of 0.0 mg/l.

UNIVERSITY OF ILLINOIS-URBANA
3 0112 122549055